Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference IPY-138	FOR FURTHER ACTION SeeNotification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/month/year)		Priority date (day/month/year)			
PCT/JP2003/005088	22 April 2003 (22.04	4.2003)	22 April 2002 (22.04.2002)			
International Patent Classification (IPC) or n F21V 8/00, F21Y 101:02	ational classification and IPC					
Applicant	MITSUBISHI RAYON	CO., LTD.				
This international preliminary examand is transmitted to the applicant a This REPORT consists of a total of	ccording to Article 36.		national Preliminary Examining Authority			
This report is also accompan	nied by ANNEXES, i.e., sheets	of the descripti	on, claims and/or drawings which have been tions made before this Authority (see Rule			
These annexes consist of a t	otal of sheets.		·			
3. This report contains indications rela	ating to the following items:					
I Basis of the report	I Basis of the report					
II Priority	II Priority					
III Non-establishment	of opinion with regard to nove	lty, inventive s	tep and industrial applicability			
IV Lack of unity of in	IV Lack of unity of invention					
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents	VI Certain documents cited					
VII Certain defects in the international application						
VIII Certain observation	ns on the international applicati	on				
			<u> </u>			
Date of submission of the demand	Date	of completion	of this report			
22 April 2003 (22.04	.2003)	05 D	ecember 2003 (05.12.2003)			
Name and mailing address of the IPEA/JP	Auth	orized officer				
Facsimile No.	Tele	phone No.				

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	f the report		
1. With 1	egard to the elements	s of the international application:*	
\boxtimes	the international appl	lication as originally filed	
\Box	the description:		
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	the claims:	, ,	l
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		, as amended (together with any statement under Artic	
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	the drawings:		
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the ir Thes	the language of a truthe language of public the language of the or 55.3). The regard to any numinary examination with the language of the or 5th the language of	age, all the elements marked above were available or furnished to this Authority in the language in was filed, unless otherwise indicated under this item. able or furnished to this Authority in the following language	.2 and/ national
in t and	the descript the claims, the drawing This report has bee beyond the disclosulacement sheets which his report as "origin 70.17).	nave resulted in the cancellation of: ion, pages Nos gs, sheets/fig an established as if (some of) the amendments had not been made, since they have been considered are as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** In have been furnished to the receiving Office in response to an invitation under Article 14 are refunally filed" and are not annexed to this report since they do not contain amendments (Rule mataining such amendments must be referred to under item 1 and annexed to this report.	erred to
1		·	

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IV. Lack of unity of invention		
1. In response to the invitation to restrict or pay additional fees the applicant has:		
restricted the claims.		
paid additional fees.		
paid additional fees under protest.		
neither restricted nor paid additional fees.		
2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.		
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is		
complied with.	Ì	
not complied with for the following reasons:	١	
(See supplemental sheet)		
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 Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report: 		
all parts.		
the parts relating to claims Nos		

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV. 3

The common feature among claims 1-48 is the feature wherein the "plate-like waveguide...the sectional form of the rows of irregular structures perpendicular to the direction in which the rows extend is such that 10% or more of the angle components that are formed by the tangent and the aforementioned rows of irregular structures in the fine areas have inclination angles with absolute values between 20-50°."

However, the results of the search make it clear that the abovementioned common feature does not involve an inventive step in the light of document 1 and document 2, which are cited in the international search report as category "Y" documents.

Consequently, the abovementioned common feature does not define a contribution over the prior art; therefore, said common feature is not a "special technical feature" in the meaning of PCT Rule 13.2, sentence 2.

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v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-48	YES
		Claims		NO
Inventive step (IS)	Claims	6, 13, 16, 20, 25-29, 40-41, 47-48	YES	
	Claims	1-5, 7-12, 14-15, 17-19, 21-24, 30- 39, 42-46	NO	
	Industrial applicability (IA)	Claims	1-48	YES
		Claims		NO

2. Citations and explanations

- Document 1: JP 2000-294019 A (Mitsubishi Rayon Co.,
 Ltd.), 20 October 2000, paragraphs [0016] to
 [0018]
- Document 2: JP 11-287993 A (Shimada Precision Co., Ltd.), 19 October 1999, paragraph [0018]
- Document 3: JP 2001-66590 A (Enplas Corp.), 16 March 2001, paragraphs [0027], [0029] to [0031], and [0048]
- Document 4: JP 11-52380 A (Enplas Corp.), 26 February 1999, paragraphs [0008] and [0032]
- Document 5: JP 2002-46159 A (Sumitomo Chemical Co., Ltd.), 12 February 2002, paragraphs [0026] and [0043]
- Document 6: JP 2000-98382 A (Colcott Kabushiki Kaisha),
 07 April 2000, paragraph [0005]

The inventions set forth in claims 1, 2, 18, 21, 24, 30-33, 35-38 and 42-46 do not involve an inventive step in the light of document 1 and document 2 cited in the international search report. It would be easy for a person skilled in the art to employ the point light source that is disclosed in document 2 in the invention that is disclosed in document 1.

The invention set forth in claim 3 does not involve an inventive step in the light of document 1, document 2 and document 3 cited in the international search report. It would be easy for a person skilled in the art to employ the point light source that is disclosed in document 2 and the feature of providing the back surface with a light-scattering pattern that has a rough surface, which is disclosed in document 3, in the invention that is disclosed in document 1.

The invention set forth in claim 4 does not involve an inventive step in the light of document 1, document 2 and document 3 cited in the international search report. It would be easy for a person skilled in the art to employ the point light source that is disclosed in document 2 and the feature of configuring so that the sloped parts of the projections have a rounded form, which is disclosed in document 3, in the invention that is disclosed in document

The invention set forth in claims 5, 10-11, 14-15, 17 and 19 does not involve an inventive step in the light of document 1, document 2 and document 3 cited in the international search report. It would be easy for a person skilled in the art to employ the point light source that is disclosed in document 2, as well as the feature of configuring so that the sloped parts of the projections have a rounded form and the feature of connecting the projections either directly or via the curved surfaces that have an approximately rounded sectional form, which are disclosed in document 3, in the invention that is disclosed in document 1.

The invention set forth in claims 7-9, 12 and 34 does not involve an inventive step in the light of document 1, document 2 and document 4 cited in the international search report. It would be easy for a person skilled in the art to employ the point light source that

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is disclosed in document 2 and the feature of configuring so that the radii of the curvatures of the curved surfaces that connect the sloped surfaces of the fine projecting parts increase in the vicinity of the incident surface, which is disclosed in document 4, in the invention that is disclosed in document 1.

The invention set forth in claims 22-23 does not involve an inventive step in the light of document 1, document 2 and document 5 cited in the international search report. It would be easy for a person skilled in the art to employ the point light source that is disclosed in document 2, as well as the feature of polishing the mold and the feature of providing an irregular pattern to the mold by means of an etching method, which are set forth in document 5, in the invention that is disclosed in document 1.

The invention set forth in claim 39 does not involve an inventive step in the light of document 1, document 2 and document 6 cited in the international search report. It would be easy for a person skilled in the art to employ the point light source that is disclosed in document 2 and the feature of forming a radial pattern that expands from the light-source side, which is disclosed in document 6, in the invention that is disclosed in document 1.